

AMENDMENTS

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) An intervertebral disc prosthesis, comprising two cover plates and a prosthesis core, the prosthesis core being ~~which is~~ connected to one of the cover plates by complementary undercut connection profiles on the one of the cover plates and the prosthesis core, ~~which connection profiles are undercut in a complementary manner,~~

wherein the connection profiles on each of the prosthesis and the one of the cover plates include at least one pair of substantially straight profile sections which are disposed symmetrically with respect to an anterior-posterior direction of the prosthesis in an implanted position ~~and are arranged to meet~~ so that lines extended from the substantially straight profile sections meet at an included angle ~~included between the straight profile sections~~ is not greater than 150°.

2. (Canceled)

3. (Previously Presented) The intervertebral disc prosthesis according to claim 1, wherein the profile sections are arranged on a dorsal side of the intervertebral disc prosthesis and are held in engagement with each other by an engaging structure arranged on a ventral side of the intervertebral disk prosthesis in the implanted position.

4. (Previously Presented) The intervertebral disc prosthesis according to claim 3, further comprising a pair of laterally arranged profile sections.

5. (Canceled)